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Title: **JP55111060A2: THIN BATTERY**

Country: **JP Japan**

Kind: **A**

Inventor: **NOMURA HIRONORI;**

Assignee: **CITIZEN WATCH CO LTD**  
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Published / Filed: **1980-08-27 / 1979-02-19**

Application Number: **JP1979000000180**

IPC Code: **H01M 2/08;**

Priority Number: **1979-02-19 JP1979000079180**


Abstract: **PURPOSE:** To enable mass production of a thin battery with excellent liquid leakageproofness which has a thickness of less than 1mm by using a package member in which an insulating film for avoiding shortcircuit is coated on the surface of conductive materials.

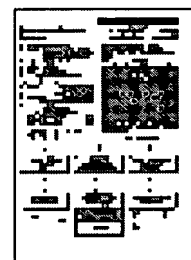
**CONSTITUTION:** An alkali-proof insulating film consisting of phenol resin, epoxy resin, furan resin, etc. is coated on the outer surface of the battery can 8 consisting of conductive materials. The positive flux 1 is pelletized and inserted in this battery can 8 and the separator 4 is put on it. Then the sealing member 11 on which sealing agent 12 such as asphalt, wax, etc. is coated is pressed in along the inner wall of the battery can 8 so as to press the outer surface of the separator 4. Subsequently, negative flux 2 or the negative member 13 such as lithium, zinc, etc. is inserted and electrolyte 3 is injected. Subsequently, the battery can 9 is pressed in so as to cover a lid. By coating alkali-proof bonding agent 14 between the tip of the battery can 9 and the outer surface of the battery can 8, a thin battery is formed.

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Family: **None**



Forward References: **Go to Result Set: Forward references (3)**

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	<a href="#">US6586912</a>	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	<a href="#">Method and apparatus for amplitude limiting battery temperature spikes</a>
					<a href="#">Metal-air cell housing with</a>



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	<a href="#">US6461765</a>	2002-10-08	Witzigreuter; John D.	Aer Energy Resources Inc.	<a href="#">improved peripheral seal design</a>
	<a href="#">US4487819</a>	1984-12-11	Koga; Ryoji	Kawaguchiko Seimitsu Company Limited	<a href="#">Flat battery</a>

Other Abstract  
Info:

None



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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **54018079**(51) Intl. Cl.: **H01M 2/08**(22) Application date: **19.02.79**

(30) Priority:

(43) Date of application  
publication: **27.08.80**(84) Designated contracting  
states:(71) Applicant: **CITIZEN WATCH CO LTD**(72) Inventor: **NOMURA HIRONORI**

(74) Representative:

**(54) THIN BATTERY**

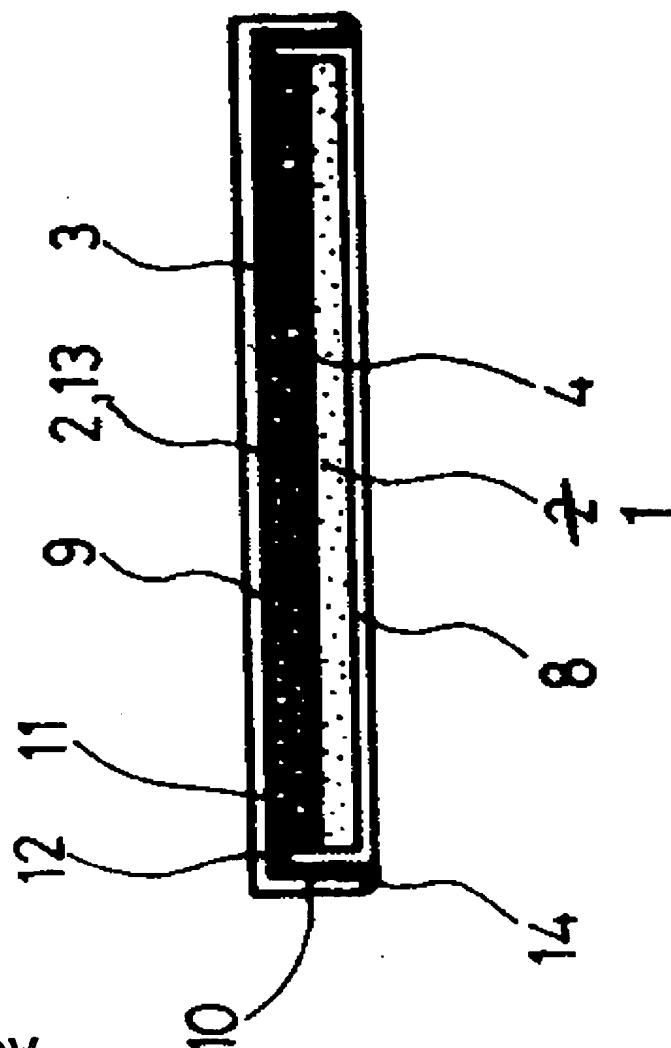
(57) Abstract:

**PURPOSE:** To enable mass production of a thin battery with excellent liquid leakageproofness which has a thickness of less than 1mm by using a package member in which an insulating film for avoiding shortcircuit is coated on the surface of conductive materials.

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